

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/537,562 A

Source: PG

Date Processed by STIC: 6/5/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:32

Input Set : A:\9310-150.ST25.TXT

Output Set : N:\CRF4\06052006\J537562A.raw

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3 <110> APPLICANT: Venema, Fokke
5 <120> TITLE OF INVENTION: Method for lowering both sequence variations and increase of
base
6     line effects in a diagnostic hybridisation assay, assay for
7     performing such a method and probe for use in the assay
9 <130> FILE REFERENCE: 9310-150
11 <140> CURRENT APPLICATION NUMBER: US 10/537,562A
C--> 12 <141> CURRENT FILING DATE: 2005-06-03
14 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/013676
15 <151> PRIOR FILING DATE: 2003-12-02
17 <150> PRIOR APPLICATION NUMBER: EP 02080125.4
18 <151> PRIOR FILING DATE: 2002-12-03
20 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 26
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Molecular beacon Ref
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: (1)..(26)
36 <223> OTHER INFORMATION: n = inosine
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42 <210> SEQ ID NO: 2
43 <211> LENGTH: 26
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Molecular beacon Me-1
51 <220> FEATURE:
52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (1)..(26)
54 <223> OTHER INFORMATION: n = inosine;
56 <220> FEATURE:
57 <221> NAME/KEY: modified_base
58 <222> LOCATION: (4)..(5)
59 <223> OTHER INFORMATION: 2'-O-methyladenine
61 <220> FEATURE:
62 <221> NAME/KEY: modified_base
63 <222> LOCATION: (8)..(8)
64 <223> OTHER INFORMATION: 2'-O-methyladenine

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66 <220> FEATURE:
67 <221> NAME/KEY: modified_base
68 <222> LOCATION: (11)..(11)
69 <223> OTHER INFORMATION: 2'-O-methyladenine
71 <220> FEATURE:
72 <221> NAME/KEY: modified_base
73 <222> LOCATION: (18)..(18)
74 <223> OTHER INFORMATION: 2'-O-methyladenine
76 <220> FEATURE:
77 <221> NAME/KEY: modified_base
78 <222> LOCATION: (20)..(20)
79 <223> OTHER INFORMATION: 2'-O-methyladenine
81 <400> SEQUENCE: 2
W--> 82 atcaatgagg angctgcaga ntggga 26
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 26
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Molecular beacon Me-2
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: (1)..(26)
97 <223> OTHER INFORMATION: n = inosine
99 <220> FEATURE:
100 <221> NAME/KEY: modified_base
101 <222> LOCATION: (4)..(5)
102 <223> OTHER INFORMATION: 2'-O-methyladenine
104 <220> FEATURE:
105 <221> NAME/KEY: modified_base
106 <222> LOCATION: (7)..(7)
107 <223> OTHER INFORMATION: 2'-O-methylguanine
109 <220> FEATURE:
110 <221> NAME/KEY: modified_base
111 <222> LOCATION: (9)..(10)
112 <223> OTHER INFORMATION: 2'-O-methylguanine
114 <220> FEATURE:
115 <221> NAME/KEY: modified_base
116 <222> LOCATION: (11)..(11)
117 <223> OTHER INFORMATION: 2'-O-methyladenine
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121 <222> LOCATION: (13)..(13)
122 <223> OTHER INFORMATION: 2'-O-methylguanine
124 <220> FEATURE:
125 <221> NAME/KEY: modified_base
126 <222> LOCATION: (16)..(16)
127 <223> OTHER INFORMATION: 2'-O-methylguanine
129 <220> FEATURE:

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Input Set : A:\9310-150.ST25.TXT

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130 <221> NAME/KEY: modified\_base  
131 <222> LOCATION: (19)..(19)  
132 <223> OTHER INFORMATION: 2'-O-methylguanine  
134 <220> FEATURE:  
135 <221> NAME/KEY: modified\_base  
136 <222> LOCATION: (20)..(20)  
137 <223> OTHER INFORMATION: 2'-O-methyladenine  
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140 <221> NAME/KEY: modified\_base  
141 <222> LOCATION: (23)..(24)  
142 <223> OTHER INFORMATION: 2'-O-methylguanine  
144 <400> SEQUENCE: 3/  
W--> 145 atcaatgagg angctgcaga ntggga 26  
148 <210> SEQ ID NO: 4  
149 <211> LENGTH: 26  
150 <212> TYPE: DNA  
151 <213> ORGANISM: Artificial  
153 <220> FEATURE:  
154 <223> OTHER INFORMATION: Molecular beacon Me-7  
157 <220> FEATURE:  
158 <221> NAME/KEY: misc\_feature  
159 <222> LOCATION: (1)..(26)  
160 <223> OTHER INFORMATION: n = inosine  
162 <220> FEATURE:  
163 <221> NAME/KEY: modified\_base  
164 <222> LOCATION: (5)..(5)  
165 <223> OTHER INFORMATION: 2'-O-methyladenine  
167 <220> FEATURE:  
168 <221> NAME/KEY: modified\_base  
169 <222> LOCATION: (7)..(7)  
170 <223> OTHER INFORMATION: 2'-O-methylguanine  
172 <220> FEATURE:  
173 <221> NAME/KEY: modified\_base  
174 <222> LOCATION: (9)..(10)  
175 <223> OTHER INFORMATION: 2'-O-methylguanine  
177 <220> FEATURE:  
178 <221> NAME/KEY: modified\_base  
179 <222> LOCATION: (11)..(11)  
180 <223> OTHER INFORMATION: 2'-O-methyladenine  
182 <220> FEATURE:  
183 <221> NAME/KEY: modified\_base  
184 <222> LOCATION: (13)..(13)  
185 <223> OTHER INFORMATION: 2'-O-methylguanine  
187 <220> FEATURE:  
188 <221> NAME/KEY: modified\_base  
189 <222> LOCATION: (16)..(16)  
190 <223> OTHER INFORMATION: 2'-O-methylguanine  
192 <220> FEATURE:  
193 <221> NAME/KEY: modified\_base

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Input Set : A:\9310-150.ST25.TXT

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194 <222> LOCATION: (18)..(18)
195 <223> OTHER INFORMATION: 2'-O-methyladenine
197 <220> FEATURE:
198 <221> NAME/KEY: modified_base
199 <222> LOCATION: (19)..(19)
200 <223> OTHER INFORMATION: 2'-O-methylguanine
202 <220> FEATURE:
203 <221> NAME/KEY: modified_base
204 <222> LOCATION: (20)..(20)
205 <223> OTHER INFORMATION: 2'-O-methyladenine
207 <220> FEATURE:
208 <221> NAME/KEY: modified_base
209 <222> LOCATION: (23)..(25)
210 <223> OTHER INFORMATION: 2'-O-methylguanine
212 <400> SEQUENCE: 4
W--> 213 atcaatgagg angctgcaga ntggga 26
216 <210> SEQ ID NO: 5
217 <211> LENGTH: 26
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Molecular beacon Ref2
224 <400> SEQUENCE: 5
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228 <210> SEQ ID NO: 6
229 <211> LENGTH: 26
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Molecular beacon LNA1
237 <220> FEATURE:
238 <221> NAME/KEY: modified_base
239 <222> LOCATION: (1)..(1)
240 <223> OTHER INFORMATION: LNA nucleotide of adenine
242 <220> FEATURE:
243 <221> NAME/KEY: modified_base
244 <222> LOCATION: (15)..(15)
245 <223> OTHER INFORMATION: LNA nucleotide of thymine
247 <400> SEQUENCE: 6
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251 <210> SEQ ID NO: 7
252 <211> LENGTH: 26
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Molecular beacon LNA2
260 <220> FEATURE:
261 <221> NAME/KEY: modified_base
262 <222> LOCATION: (1)..(1)

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Input Set : A:\9310-150.ST25.TXT

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263 <223> OTHER INFORMATION: LNA nucleotide of adenine  
265 <220> FEATURE:  
266 <221> NAME/KEY: modified\_base  
267 <222> LOCATION: (11)..(11)  
268 <223> OTHER INFORMATION: LNA nucleotide of adenine  
270 <220> FEATURE:  
271 <221> NAME/KEY: modified\_base  
272 <222> LOCATION: (15)..(15)  
273 <223> OTHER INFORMATION: LNA nucleotide of thymine  
275 <400> SEQUENCE: 7  
276 atcaatgagg aagctgcaga atggga 26  
279 <210> SEQ ID NO: 8  
280 <211> LENGTH: 26  
281 <212> TYPE: DNA  
282 <213> ORGANISM: Human immunodeficiency virus type 1  
284 <400> SEQUENCE: 8  
285 atcaatgagg aagctgcaga atggga 26  
288 <210> SEQ ID NO: 9  
289 <211> LENGTH: 26  
290 <212> TYPE: DNA  
291 <213> ORGANISM: Human immunodeficiency virus type 1  
293 <400> SEQUENCE: 9  
294 attaataag aagctgcaga gtggga 26  
297 <210> SEQ ID NO: 10  
298 <211> LENGTH: 26  
299 <212> TYPE: DNA  
300 <213> ORGANISM: Human immunodeficiency virus type 1  
302 <400> SEQUENCE: 10  
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306 <210> SEQ ID NO: 11  
307 <211> LENGTH: 26  
308 <212> TYPE: DNA  
309 <213> ORGANISM: Human immunodeficiency virus type 1  
311 <400> SEQUENCE: 11  
312 atcaatgatg aagcagcaga ttggga 26  
315 <210> SEQ ID NO: 12  
316 <211> LENGTH: 26  
317 <212> TYPE: DNA  
318 <213> ORGANISM: Human immunodeficiency virus type 1  
320 <400> SEQUENCE: 12  
321 atcaatgagg aagcggcaga ttggga 26

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/537,562A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12,21

Seq#:2; N Pos. 12,21

Seq#:3; N Pos. 12,21

Seq#:4; N Pos. 12,21

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7

**VERIFICATION SUMMARY**

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Input Set : A:\9310-150.ST25.TXT

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0